

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (Canceled) A method of drying printed media using a electromagnetic
2 signal, comprising:
3 receiving the printed media through an input opening;
4 drying the printed media using an electric field formed within a resonant cavity; and
5 passing the printed media through an output opening, wherein the input and output
6 openings substantially attenuate the electric field.

1 2. (Canceled) The method of claim 1, wherein receiving the printed media
2 comprises providing the input opening along a longitudinal axis of the resonant cavity.

1 3. (Canceled) The method of claim 2, wherein the input opening is provided as
2 a waveguide.

1 4. (Canceled) The method of claim 3, wherein stubs are provided within the
2 waveguide to attenuate the electric field.

1 5. (Canceled) The method of claim 4, wherein the stubs have critical
2 dimensions substantially equal to a quarter of a wavelength of the electric field.

1 6. (Canceled) The method of claim 1, wherein the electric field is substantially
2 flat within a range.

1 7. (Canceled) The method of claim 1, wherein the electric field is formed by a
2 transmission of the electric field into the resonant cavity.

1 8. (Canceled) The method of claim 1, wherein drying the printed media further
2 includes providing forced air at a first end of the resonant cavity.

1 9. (Canceled) The method of claim 8, wherein the forced air is egressed
2 through a second end of the resonant cavity.

1 10. (Canceled) The method of claim 9, wherein an attenuating structure is
2 provided at the second end of the resonant cavity to substantially attenuate the electric field.

1 11. (Canceled) The method of claim 1, wherein passing the printed media
2 comprises providing the output opening along a longitudinal axis of the resonant cavity.

1 12. (Canceled) The method of claim 11, wherein the output opening is provided
2 as a waveguide.

1 13. (Canceled) The method of claim 12, wherein stubs are provided within the
2 waveguide to attenuate the electric field.

1 14. (Canceled) The method of claim 12, wherein the stubs have critical
2 dimensions substantially equal to a quarter of a wavelength of the electric field.

1 15. (Canceled) The method of claim 1, further comprising providing pinch
2 rollers at the output opening.

1 16. (Canceled) An article of manufacture comprising a program storage medium
2 readable by a computer, the medium tangibly embodying one or more programs of
3 instructions executable by the computer to perform a method for drying printed media, the
4 method comprising:
5 receiving the printed media through an input waveguide;
6 drying the printed media using an electric field formed within a resonant cavity; and
7 passing the printed media through an output waveguide, wherein the input and
8 output waveguides substantially attenuate the electromagnetic signal.

1 17. (Canceled) A printed media drying device, comprising:
2 means for receiving the printed media;
3 means for drying the printed media using an electric field formed within a resonant
4 cavity; and
5 means for providing the printed media from the resonant cavity, wherein the means for
6 receiving the printed media and means for providing the printed media substantially attenuate the
7 electromagnetic signal.

1 18. (New) A method of drying printed media using a electromagnetic signal,
2 comprising:
3 receiving printed web media at an input opening of a resonant cavity;
4 drying the printed media using an electric field formed within the resonant cavity and
5 using forced air directed perpendicular to the input opening within the resonant cavity, the forced
6 air egressed from the resonant cavity via an attenuation structure, the attenuation substantially
7 attenuating electric field emissions from the attenuation structure; and
8 passing the printed media through an output opening, wherein the input and output
9 openings substantially attenuate electric field emissions from the input and output openings.

1 19. (New) The method of claim 18, wherein receiving the printed media comprises
2 providing the input opening along a longitudinal axis of the resonant cavity.

1 20. (New) The method of claim 18, wherein the drying the printed media using an
2 electric field formed within a resonant cavity further comprises drying the printed media using an
3 electric field formed within a resonant cavity having stubs to attenuate the electric field.

1 21. (New) The method of claim 20, wherein the drying the printed media using an
2 electric field formed within a resonant cavity having stubs further comprises drying the printed
3 media using an electric field formed within a resonant cavity having stubs with critical
4 dimensions substantially equal to a quarter of a wavelength of the electric field.

1 22. (New) The method of claim 18, wherein drying the printed media using an
2 electric field formed within a resonant cavity further comprises further comprises providing the
3 electric field in a line perpendicular to a line between the input and output openings.

1 23. (New) The method of claim 18, wherein the drying the printed media using an
2 electric field formed within a resonant cavity further comprises focusing the electric field in a
3 localized area for centralized drying.

1 24. (New) The method of claim 18, wherein the drying the printed media using an
2 electric field formed within a resonant cavity further comprises frequency modulating the electric
3 field.

1 25. (New) The method of claim 24, wherein the frequency modulating the electric
2 field further comprises using an asymmetrically slotted waveguide attached to a microwave
3 source.

1 26. (New) The method of claim 25, wherein the using an asymmetrically slotted
2 waveguide attached to a microwave source further comprises exciting selected resonant modes.

1 27. (New) The method of claim 18, wherein the drying the printed media further
2 comprises measuring in real time the drying of the printed media and adjusting the electric field
3 based on the real time measuring.

1 28. (New) The method of claim 18, further comprising providing a conductive
2 transport mechanism at the output opening.

1 29. (New) An article of manufacture comprising a program storage medium readable
2 by a computer, the medium tangibly embodying one or more programs of instructions executable
3 by the computer to perform a method for drying printed media, the method comprising:
4 receiving printed web media at an input opening of a resonant cavity;
5 drying the printed media using an electric field formed within the resonant cavity and
6 using forced air directed perpendicular to the input opening within the resonant cavity, the forced
7 air egressed from the resonant cavity via an attenuation structure, the attenuation substantially
8 attenuating electric field emissions from the attenuation structure; and
9 passing the printed media through an output opening, wherein the input and output
10 openings substantially attenuate electric field emissions from the input and output openings

1 30. (New) A printed media drying device, comprising:
2 means for receiving printed web media at a resonant cavity;
3 means for drying the printed media using an electric field formed within the resonant
4 cavity and using forced air directed perpendicular to the input opening within the resonant
5 cavity, the forced air egressed from the resonant cavity via a means for attenuating, the means for
6 attenuating substantially attenuates electric field emissions from the means for attenuating; and
7 means for passing the printed media through an output opening, wherein the means for
8 receiving and the means for passing substantially attenuating electric field emissions therefrom.